WEST Search History

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DATE: Thursday, November 21, 2002

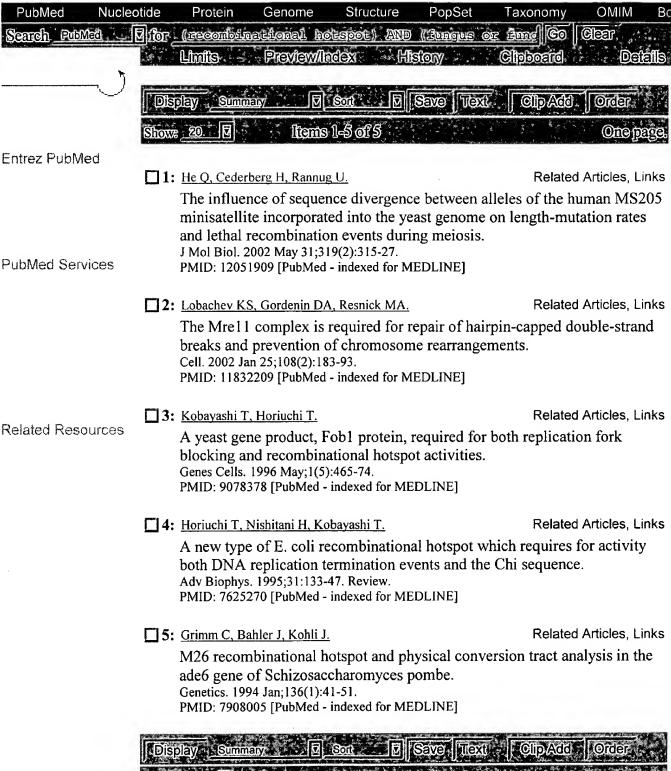
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L12	L11 same cog	0	L12
L11	L9 same Saccharomyces	10	L11
L10	L9 same Neurospora	2	L10
L9	L8 same haploid	72	L9
L8	L1 same (fungus or fungal or fungi or yeast)	2065	L8
L7	L3 same cog	2	L7
L6	L3 same diploid	3	L6
L5	L3 same Neurospora	2	L5
L4	L3 same haploid	2	L4
L3	L2 same (fungus or fungal or fungi or yeast)	11	L3
L2	(recombination or recombinational) hotspot	41	L2
L1	(recombination or recombinational)	45777	L1

END OF SEARCH HISTORY









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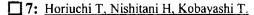
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Related Articles, Links

A new type of E. coli recombinational hotspot which requires for activity both DNA replication termination events and the Chi sequence.

Adv Biophys. 1995;31:133-47. Review.

PMID: 7625270 [PubMed - indexed for MEDLINE]

8: Grimm C, Bahler J, Kohli J.

Related Articles, Links

M26 recombinational hotspot and physical conversion tract analysis in the ade6 gene of Schizosaccharomyces pombe.

Genetics. 1994 Jan; 136(1):41-51.

PMID: 7908005 [PubMed - indexed for MEDLINE]



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Set	Items	Description
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S2	1349	(RECOMBINATION OR RECOMBINATIONAL) (W) (HOTSPOT?)
S3	177	S2 (S) (FUNGUS OR FUNGAL OR FUNGI OR YEAST)
S4	1	S3 (S) (HAPLOID)
S5	8	S3 (S) (NEUROSPORA)
S6	0	S3 (S) (DIPLOID)
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S9	4	RD S7 (unique items)
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t s10/medium/1-410/3/1 (Item 1 from file: 5) DIALOG(R) File 5: Biosis Previews(R) (c) 2002 BIOSIS. All rts. reserv. BIOSIS NO.: 199900416215 12121366 Polymorphism around cog extends into adjacent structural genes. AUTHOR: Meadon P. Jane . Catcheside David EA (a) AUTHOR ADDRESS: (a) School of Biological Sciences, Flinders University, Adelaide, SA, 5001**Australia JOURNAL: Gurrent Genetics 35 (6):p631-637 July, 1999 ISSN: 0172-8083 DOCUMENT TYPE: Article RECORD TYPE: Abstract LANGUAGE: English SUMMARY LANGUAGE: English 10/3/2 (Item 1 from file: 98) DIALOG(R)File 98:General Sci Abs/Full-Text (c) 2002 The HW Wilson Co. All rts. reserv. H.W. WILSON RECORD NUMBER: BGS196003312 (USE FORMAT 7 FOR 03253312 FULLTEXT) Meiotic recombination hotspots. Lichten, Michael Goldman, Alastair S. H Annual Review of Genetics (Annu Rev Genet) v. 29 ('95) p. 423-44 SPECIAL FEATURES: bibl il ISSN: 0066-4197 LANGUAGE: English COUNTRY OF PUBLICATION: United States WORD COUNT: 10773 10/3/3 (Item 1 from file: 155) DIALOG(R) File 155: MEDLINE(R) 13762706 22286377 PMID: 12399385 Recombination at his-3 in Neurospora Declines Exponentially With Distance from the Initiator, cog. Yeadon P Jane; Koh L Y; Bowring F J; Rasmussen J P; Catcheside D EA School of Biological Sciences, Flinders University, Bedford Park 5042, South Australia. Genetics (United States) Oct 2002, 162 (2) p747-53, ISSN 0016-6731 Journal Code: 0374636 Document type: Journal Article Languages: ENGLISH Main Citation Owner: NLM Record type: In Process 10/3/4 (Item 1 from file: 399) DIALOG(R) File 399:CA SEARCH(R) (c) 2002 American Chemical Society. All rts. reserv. 131014846 CA: 131(2)14846r PATENT heterologous DNA library production and diversification in fungus using coupled recombination hotspots INVENTOR (AUTHOR): Catcheside, David E. LOCATION: Australia ASSIGNEE: Flinders Technologies Pty. Ltd. PATENT: PCT International; WO 9927072 Al DATE: 19990603

APPLICATION: WO 98AU971 (19981123) *US 977171 (19971124)

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PAGES: 103 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12N-001/15A; C12N-015/80B; C12N-003/00B; C12N-015/04B; C12N-015/11B

DESIGNATED COUNTRIES: AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US; UZ; VN; YU; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG
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10/K/1 (Item 1 from file: 5)
DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.

ABSTRACT: The recombination hotspot cog overlaps a highly polymorphic 950-bp region of linkage group I in Neurospora crassa. The sequence of this region in the four strains, Lindegren 25a, Lindegren A, Emerson...

each side of cog shows a high level of sequence heterology extending in both directions, including the coding sequences for his-3 and a putative gene lpl with homology to yeast lysophospholipase. The St. Lawrence 74A and Lindegren 25a sequences of his-3, centro-mere-proximal to cog, differ at 14 nucleotides, resulting in six amino-acid variations between the predicted protein sequences. In lpl, distal from cog, the sequences differ at 19 nucleotides leading to five amino-acid differences between the predicted proteins. Sequence heterology between St. Lawrence 74A and Lindegren 25a peaks either side of cog and then declines with distance. At the am locus on linkage group V, heterology is much less but peaks close to a weak recombination hotspot 5' of the coding sequence. Uneven distribution of polymorphism along chromosomes has been explained by...

10/K/2 (Item 1 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... initiating lesions, either at ade6 or at other loci (3).

HOTSPOTS IN OTHER FUNGI Meiotic recombination hotspots
have been described in other fungi (reviewed in 16, 78, 87, 92, 124,
134), including the cog site near his-3 in Neurospora crassa
(17) and the YS17 allele of the buff locus in Sordaria brevicollis (75).

Both...

... the presence of initiation hotspots in flanking regions have also been reported in several other fungal species (reviewed in 51, 87, 112), but none of the putative hotspots has been characterized...

10/K/3 (Item 1 from file: 155) DIALOG(R)File 155:

By deletion of 1.8 kb of sequence between cog(L) and his-3 and replacement with sequences of different lengths, we have generated a set of Neurospora strains in which the distance between cog(L) and the site at which recombination is selected varies from 1.7 to nearly 6 kb. Each of the manipulated strains includes cog(L), a highly active recombination hotspot, and rec-2, thus allowing high-frequency

recombination. In addition, each is a his-3...

- ... in progeny of these crosses is inversely proportional to the distance between his-3 and cog. Specifically, there is a linear relationship between log(10) (recombination frequency) and the distance in...
- ... markers and the chance of co-conversion has been found in both Drosophila and fission **yeast**, indicating that the extension of recombination events may be a stochastic process in most organisms...
- ... these and additional data presented in this article, we conclude that recombination is initiated at cog(L) in >17% of meioses, that most conversion tracts are very short, and that few...